

BLAGOVIDOV, I.F.; BOROVAYA, M.S.

Effect of a polymethylsiloxane liquid on the properties of
motor oils. Khim. i tekhn. topl. i masel 8 no. 6:52-57 Je '63.
(MIRA 16:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po perera-
betke nefti i gazov i polucheniyu iskusstvennogo zhidkogo
topliva.

(Siloxanes)
(Lubrication and lubricants)

BLAGOVIDOV, I.F.; BOROVAYA, M.S.

Investigating the susceptibility of various basic oils to additives.
Khim. i tekhn. topl. i masei 9 no.2:57-62 F '64. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.

BLAGOVIDOV, I.F.; ZHALNIN, I.Ye.

Diesel-engine oils. Standartizatsija 27 no. 3:40-43 Mr '63.
(MIRA 16:4)
(Diesel fuels--Standards)

BLAGOVIDOV, I.F.; ZHALNIN, I.Ye.

Qualities of crankcase oils for motor-vehicle carburetor engines.
Standartizatsiya 27 no.9:23-25 S '63. (MIRA 16:10)

ACCESSION NR: AP4014972

S/0065/64/000/002/0057/0062-

AUTHORS: Blagovidov, I.F.; Borovaya, M.S.

TITLE: Investigation of the receptivity of different basic oils
to additives.

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 2, 1964, 57-62

TOPIC TAGS: oil, oil refining, oil additive receptivity, viscosity
index, oil stability, selective refining, adsorbent
refining, oil hydrogenation,

ABSTRACT: Basic oils from sulfurous petroleums having a viscosity
of V₁₀₀ = 11 centistokes were refined with phenol, synthetic adsor-
bents or hydrogenation at 250 atmospheres, with the viscosity index
being used as the indicator to determine the extent of refining. To
evaluate stability and compatibility with additives, the oil was
tested for stability at 2500 and for corrosiveness at 1400 after 25.
hours (using a catalyst). Basic oils with the same viscosity index
values show practically the same receptivity to additives, regardless

Card 1/2

ACCESSION NR: AP4014972

of the purification method. By refining up to a viscosity index of about 85 less precipitate is formed after oxidation and there is less increase in viscosity, and by refining to viscosity index above 85 receptivity of the oils to additives is increased very little (selective refining to viscosity index above 96 does result in somewhat higher stability). It was also found that adsorption refined distillate oils are less receptive to additives than adsorption refined oils containing residual components. Orig. art. has: 5 tables.

ASSOCIATION: VNII NP

SUBMITTED: 00 DATE ACQ: 26Feb64 ENCL: 00

SUB CODE: FL NR REF SOV: 011 OTHER: 000

Card 2/2

L 20632-66 EWT(m)/T DJ

ACC NR: AP6011220

(A)

SOURCE CODE: UR/0413/66/000/006/0057/0057

INVENTOR: Blagovidov, I. F.; Druzhinina, A. V.; Monastyrskiy, V. N.; Puchkov, N. G.; Deryabin, A. A.; Borovaya, M. S.; Filippov, V. F.; Avaliani, T. K.; Zaslavskiy, Yu. S.; Tarmanyan, G. S.; Shor, G. I.; Dmitriyeva, N. A.; Belyanchikov, G. P.; Kuliyev, A. M.; Suleymanova, F. G.; Zaynalova, G. A.; Sadykhov, K. I.

ORG: none

TITLE: Preparative method for motor oils. Class 23, No. 179868

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 57

TOPIC TAGS: lubricating oil, lubricant additive

ABSTRACT: An Author Certificate has been issued for a preparative method for motor oils, involving the introduction of additives// To impart the required service properties, the additives used are an alkylphenol-formaldehyde condensation product (3—15%), a sulfonate additive (1—6%), an additive based on xanthates or dithiophosphates (0.5—1%), and an organosilicon additive (0.003—0.005%) [the additives are not further identified in the source].

[SM]

SUB CODE: 11/ SUBM DATE: 02Aug62/ ATD PRESS: 4225

Card 1/1

UDC: 665.521.5002.237

BLAGOVIDOVA, L.A.; SVETOVIDOVA, A.A.

Distribution of commercial fishes in the northern part of Rybinsk
Reservoir. Trudy DGZ no.6:61-102 '60. (MIRA 13:10)
(Rybinsk Reservoir--Fisheries--Research)

BLAGOVIDOVA, L.A.

Distribution of fishes in the Mologa spur of Rybinsk Reservoir.
Trudy DGZ no.7:247-276 '61. (MIRA 16:2)
(Rybinsk Reservoir--Fishes)

CP

32. N.GOV'DOV, N.L.

Sods of the northwestern part of European U. S. S. R.
N. L. Blagovidov, *Zemley S. S. R., Akad. Nauk S. S. R., Pecherskiy Inst. im. Dobuchanova 2, 187-78*

(1930); Khim. Referat. Zhur. 1939, No. 10, 61.- From the clayey soils on glacier debris to the soils on fluvial-glacial sands the contents of moisture and of total Fe, Al and alk. earth metals decreases, the SiO₂ content increases, the hydrolytic acidity and the amt. of the exchange bases decreases considerably, and the content of mobile K decreases; mobile P₂O₅ shows no regularity. In the direction of the light to the heavy soils the content of the mobile K increases from 6 to 22 mg. and from the strongly podzol to the weakly podzol clayey soils from 9.5 to 20 mg./100 g. of the soil. The content of humus increases from the strongly to the weakly podzol and the residual carbonate soils from 1.8 to 6%. In the northern region the pH is not less than 5.5 and the satn. degree not less than 70%. The southern part of the territory possesses a variety of podzol-forming processes owing to the variety of the relief and of the soil-forming rocks. The pH of the turf medium and strongly podzol soils on loess and on loess-like clays in the upper horizon is 4.2-5.8 (more often 4.4-4.8), of the podzol swamp soils in the lower loess plateau 4.0-4.4, of the strongly and medium podzol soils on glacial debris 4.5-5.0 (on level ground) and 5.5-5.7 (on hill slopes), and of sandy soils 4.3. The degree of satn. of the soils with bases varies approx. 50%. The total content of P₂O₅ is from 0.03% in the sandy soils to 0.12% in the clayey soils. The mobility of P₂O₅ shows sharp variations regardless of the genetic peculiarities of the soils.

W. R. Henn

ASU-SEA METALLURGICAL LITERATURE CLASSIFICATION

BLAGOVIDOV, N. L.

632.893

.B6

Pochvennaya karta i yeye ispol'zovaniye (Soil Chart And Its Utilization,
By) N. L. Blagovidov i I. Ya. Sell'-Bekman. Moskva, Sel'zhozgiz, 1954.

114 p. illus., charts, tables.

"Literatura": p. (116)

KORNILOV, Mikhail Fedorovich; BLAGOVIDOV, N.L.

[Liming of soils in the northwestern area of the non-Chernozem region of the U.S.S.R.] Izvestkovanie pochv severo-zapadnoi zony nechernozemnoi polosy SSSR. Moskva, Gos.izd-vo selkhoz. lit-ry, 1955. 217 p.
(Lime) (MIRA 13:6)

USSR/Soil Science - Physical and Chemical Properties of Soils.

J

Abs Jour : Ref Zhur Biol., No 22, 1958, 100019

Author : Ilagovidov, N.L., Rabinovich, V.A., Selli'-Bekman, I.Ya.

Inst :
Title : Modification Character of the Oxidizing Potential on
the Profile of Certain Soils of the Leningradskaya Oblast'

Orig Pub : Pochvovedeniye, 1957, No 6, 81-85

Abstract : With the aid of platinized glass electrodes, there were conducted measurements of the oxidizing potential (Eh) on the profile of a number of soils of the Leningradskaya Oblast'. It is shown that the general character of the Eh modification on the soil profile is a sufficiently reliable indication of the given soil's variety. Soils of a normal moisture are characterized by a maximum Eh in the lower part of the humus horizon, thereby connecting the change of the soil microflora's activity with depth; soils of excessive moisture are characterized by

Card 2/2

- 30 -

BLAGOVIDOV, N.L.

BLAGOVIDOV, N.L.

A good book which could be improved ("Soil science" by A.A.Bode.
Reviewed by N.L.Blagovidov). Pochvovedenie no.8:107-110 Ag '57.
(MIRA 10:11)

(Soil research)

BLAGOVIDOV, N.L.; SELL'-ERIKMAN, I.Ya.

Work of soil scientists of the Leningrad Branch of the All-Union
Society of Soil Research in 1957-1958. Pochvededenie no.2:118-120
F '59. (MIRA 12:3)

(Soil research)

SHOKAL'SHAYA, Z.Yu.; BLAGOVICH, Y.L.; SIMAKOV, V.N.; KORCHAGIN, A.A.;
TSYGANENKO, A.F.

Nina Nikolaevna Dzenz-Litovskina; obituary. Pochvovedenie no.7:
119 Jl '50. (MIR, V:11)
(Dzenz-Litovskai, Nina Nikolayevna, 1903-1958)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0

BLAGOVIDOV, N. L.

"Principles Of Determining The Degrees Of Soil Quality And Evaluation Of Lands".

report submitted for the 7th Congress of International Society of Soil Science
Madison, Wisconsin, 15-23 Aug 60.

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0"

BLAGOVIDOV, N.I.; SIMAKOV, V.N.; PONOMAREVA, V.V.; MARCHENKO, A.I.;
ALEKSANDROVA, L.N.; SOKOLOV, N.N.; ROZHNOVA, T.A.; TSYGANENKO,
A.F.; MIKHAYLOVSKAYA, O.N.; PETROV, A.P.; KHANTULEV, A.A.;
SAPOZHNIKOV, N.A.

Zinaida Iul'evna Shokal'skaia obituary. Izv. Vses. geog. ob-va
93 no.4:347-348 Jl - Ag '61. (MIRA 14:7)
(Shokal'skaia, Zinaida Iul'evna, d. 1961)

BORISOV, A.A., doktor geogr. nauk, prof.; ZNAMENSKAYA, O.M., kand. geogr. nauk; BLAGOVIDOV, N.L., kand. sel'khoz. nauk; MINYAYEV, N.A., kand. biol. nauk; SHUL'TS, G.E., kand. biol. nauk; RODIONOV, M.A., kand. biol. nauk; MAL'CHEVSKIY, A.S., prof., doktor biol. nauk; TOMSON, N., doktor med. nauk, prof., akademik; VERESHCHAGIN, N.K., doktor biol. nauk; NEYELOV, A.V., aspirant; TYUL'PANOV, N.M., inzh. lesnogo khoz.; KUROVSKIY, G.I., inzh.-parkostroitel'; SOKOLOV, M.P., arkitektor; SOKOLOV, S.Ya., doktor biol. nauk, prof., nauchn. red.; MAL'CHIKOVA, V.K., red.

[Nature of Leningrad and environs] Priroda Leningrada i okrestnosti. Leningrad, Lenizdat, 1964. 249 p.

(MIRA 17:7)

1. Akademiya nauk Estonskoy SSR (for Tomson). 2. Zoologicheskiy institut AN SSSR (for Neyelov).

BLAGOVIDOV, R.P., insb. (Ufa)

Mechanized digging of drainage ditches. Put' i put. khoz. no. 4:29
Ap '58. (MIRA 11:4)

(Railroads--Earthwork)
(Excavating machinery)
(Ditches)

BLAGOVIDOVA, L.A.

Role of diencephalic mechanisms in water metabolism changes during
surgery of the kidneys. Urologia 25 no. 5:3-9 S-O '60.

(MIRA 14:1)

(KIDNEYS—SURGERY) (DIENCEPHALON)
(WATER IN THE BODY)

BLAGOVIDOVA, L.A.

Formation of benthos in Novosibirsk Reservoir during its
flooding period. Trudy Biol. inst. Sib. otd. AN SSSR no.7:
91-102 '61. (MIRA 15:3)
(NOVOSIBIRSK RESERVOIR--BENTHOS)

BLAGOVIDOVA, L.A.; BELEKHOVA, M.G.; ZAGORUL'KO, T.M.

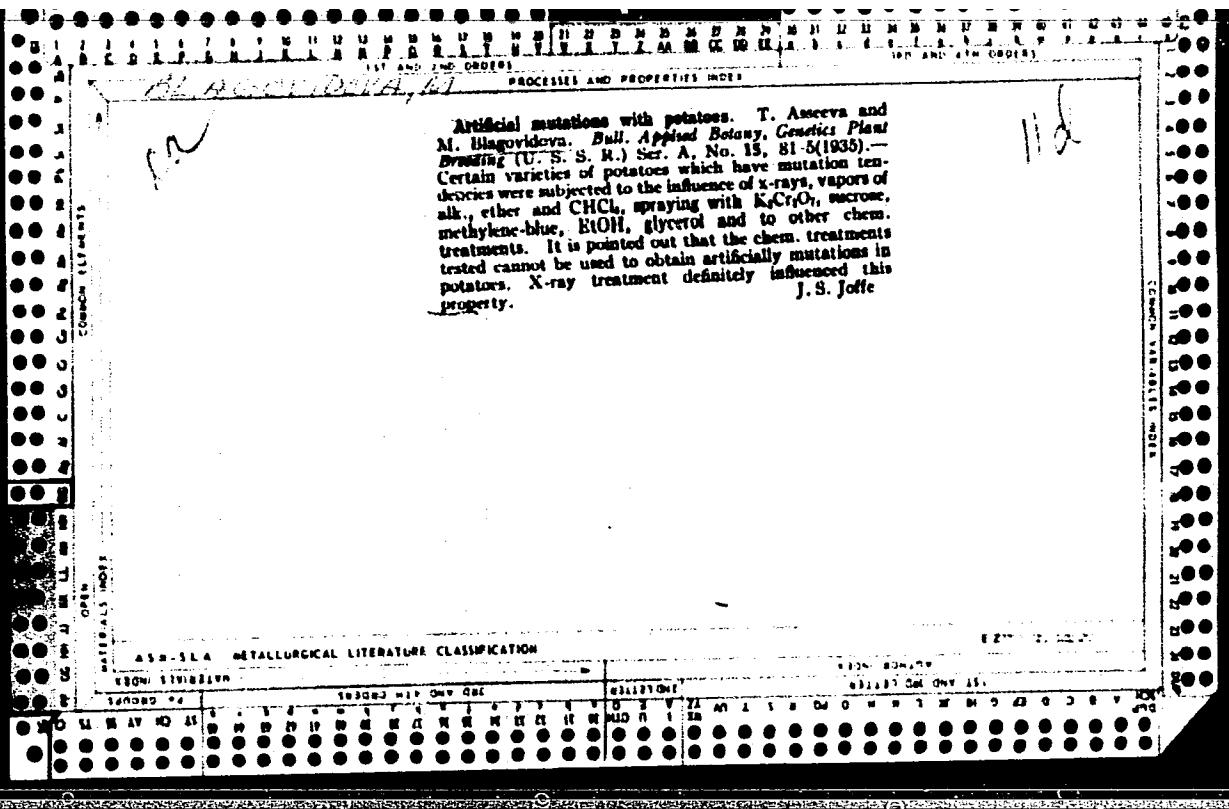
Electrical activity changes in the diencephalic region and in
the cerebral cortex of the rabbit under the influence of
bitemporal diathermy. Biul. eksp. biol. i med. 53 no.5:8-13
My '62. (MIRA 15:7)

1. Is bol'nitsy imeni V.V. Kuybyshova i laboratorii trav-
nitel'noy fiziologii tsentral'noy nervnoy sistemy (zav. - prof.
A.I. Karapyan) Instituta evolyutsionnoy fiziologii imeni I.M.
Sechenova AN SSSR, Leningrad. Pristavlena deystvitel'nym
chlenom AMN SSSR P.S. Kupalovym.
(DIATHERMY) (CEREBRAL CORTEX) (DIENCEPHALON)
(ELECTROENCEPHALOGRAPHY)

BLAGOVIDOVA, L.A.

Compensation and work capacity of persons with a history of
nephrectomy. Sov.med. 26 no.2:119-123 F'63. (MIRA 16:6)

1. Iz Leningradskogo bol'nitsy imeni V.V.Kuybysheva (zav. ka-
fedroy urologii Voyenno-meditsinskoy ordena Lenina akademii
imeni S.M.Kirova. - prof. G.S.Grebenshchikov) i otdeleniya
funktional'nykh metodov issledovaniya (zav. - dotsent I.I.
Likhnitskaya) Leningradskogo nauchno-issledovatel'skogo in-
stituta ekspertizy trudosposobnosti i organizatsii truda
invalidov.
(KIDNEYS—SURGERY) (HANDICAPPED—EMPLOYMENT)



Blagovidova, M.S.

USSR/Cultivated Plants - Ornamental.

M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15909

Author : M.S. Blagovidova

Inst :

Title : The Auricula Primrose as a Decorative Plant.
(Pervotsvet zubchatolistnyy kak dekorativnoye rasteniye).

Orig Pub : Byul. Gl. botan. sada, 1957, No 27, 58-61.

Abstract : A description of the auricula primrose (*Primula denticulata Sm.*) is given. Recommendations are presented on its reproduction, cultivation and use in green beds.

Card 1/1

175

NAZAREVSKIY, S.I., kand.sel'skokhoz.nauk; BLAGOVIDOVA, M.S.; ZAITSEVA,
Ye.N.; KRASNOVA, N.S., kand.sel'skokhoz.nauk; LIPINSKAYA, Ye.V.;
LIPSKAYA, T.V. [deceased]; SHARONOV, V.A., kand.biolog.nauk;
FILATOVA, Ye.P.; TSITSIN, N.V., akademik, otv.red.; OGOLZETS,
G.S., starshiy nauchnyy sotrudnik, red.izd-va; YEGOROVA, N.F.,
tekhn.red.

[Ornamental perennials; brief results of introduction at the
Main Botanical Garden of the Academy of Sciences of the U.S.S.R.]
Dekorativnye mnogoletniki; kratkie itogi introduktsii v Glavnom
botanicheskem sadu Akademii nauk SSSR, 1960. 333 p.

(MIRA 13:7)

1. Moscow. Glavnyy botanicheskiy sad. 2. Otdel tsvetovodstva
Glavnogo botanicheskogo sada AN SSSR (for all, except TSitsin,
Yegorova).

(Plants, Ornamental) (Moscow--Plant introduction)

BLAGOVIDOV, M.S.

Scarce--Found perennial ornamental plants in the Main Botanical
Garden. Biul. Glav. Lek. sata no.40:39-39 '61.

(CIA 14:10)

1. Glavnny Botanicheskiy sad M. SSSR.
(Moscow--Plants, Ornamental)

BLAGOVIDOVA, Yu. A.

USSR/Medicine - Pharmaceuticals May/Jun 52
Societies - Pharmaceutical

"Activity of the VNFD (All-Union Scientific Pharmaceutical Society) in 1952," Yu. A. Blagovidova, Secy, Admin of VNFO, Cand Pharm Sci

Apteknoye Delo, No 3, pp 72, 73

Outlines activities of the society planned for 1952: scientific publication (including work leading to publication of a pharmaceutical encyclopedia in 1953/54), organization of local societies, contacts with other societies, organizations, and government agencies, etc. Criticizes the Moscow Division of VNFO for inadequate direction and supervision of the activities of its subdivisions.

221T23

BLAGOVIDOVA, Yu. A.

USSR/Societies - Pharmaceutical

Jul/Aug 52

"Activities of the Moscow Division of the VNFO (All-Union Scientific Pharmaceutical Society), Yu. A. Blagovidova, Secy, Admin of VNFO, Cand Phar Sci

"Apteknoye Delo" No 4, pp 67, 68

Says that although conditions in the Moscow Division have improved, some aspects of organizational activity (recruiting of new members, collection of dues, etc.) are still open to criticism.

221T13

1. BLAGOVIDOVA, YU. A. DOCENT

2. USSR (600)

4. Pharmacy - Study and Teaching

7. Instruction in the technology of medicinal preparations and galenicals in pharmaceutical colleges in accordance with the new five-year course. Apt. delo no. 6, 1952

9. Monthly List of Russian Accessions. Library of Congress. March 1953. Unclassified.

BLAGOVIDOVA, Yu.A.

Homeopathic prescriptions. Aptech. delo, Moskva 2 no. 1:11-13 Jan-
Feb 1953. (GML 24:1)

1. Moscow.

BLAGOVIDOVA, Yu.A., dotsent.

Departments of technology of medicinal forms and galenicals of pharmaceutical institutions of higher learning should work in a new manner. Apt.delo
2 no.3:32-34 My-Je '53.

(MLRA 6:6)

(Pharmacy--Study and teaching)

BLAGOVIDOVA, Yu.A.

Activities of the pharmaceutic commission in preparation of the
material for the new edition of the pharmacopeia. Apt.delo 3
no.3:47-49 My-Je '54. (MLRA 7;6)

1. Sekretar' farmatsevticheskoy komissii.
(PHARMACOPESIA,
Russia, prep. of 8th edition)

BLAGOVIDOVA, Yu. A., dotsent

Second plenary session of the Committee on the State Pharmacopeia.
Apt. delo 3 no.4:52-55 J1-Ag '54. (MLRA 7:8)

1. Sekretar' farmatsevticheskoy komissii Gosudarstvennogo farmakopeynogo komiteta.
(PHARMACOPÉIA,
in Russia, conf.)

BLAGOVIDOVA, Yu.A.

Pharmacy in the Bulgarian People's Republic. Apt.delo 4
no.5:54-58 S-O '55. (MLRA 8:12)
(PHARMACY,
in Bulgaria)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0

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CIA-RDP86-00513R000205420017-0"

BLAGOVIDOVA, Yu., kandidat farmatsevticheskikh nauk; LYUKSHENKOV, A.G.,
kandidat farmatsevticheskikh nauk

"Guide for prescription writing." V.P.Kalashnikov, Reviewed by
IU.A.Blagovidova, A.G.Liukshenkov. Apt.delo 5 no.2:59-60 Mr-Ap '56.
(PRESCRIPTION WRITING) (KALASHNIKOV, V.P.) (MIRA 9:7)

BLAGOVIDOVA, Yu.A., dotsent (Moskva)

Suppositories; bases and qualitative rating. Apt.delo 5 no.6:35-42
M-D '56. (MLRA 10:1)
(SUPPOSITORIES)

BLAGOVIDOWA, Yu.A.

VAN TSEW-YU [Wang Ts'eng-yu], BLAGOVIDOWA, Yu.A.

Pharmacies for native drugs in the Chinese people's Republic.
Apt.delo 6 no.1:67-71 Ja-Y '57. (MILB 10:3)

1. Iz farmatsevticheskogo fakulteta Pekinskogo meditsinskogo
instituta.
(CHINA--PHARMACY)

BLAGOVIDOVA, Yu. A.

USSR/General Problems. Methodology, History, Scientific Institutions
and Conferences, Instruction, Questions Concerning Bibli-
graphy and Scientific Documentation.

A

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3469.

Author : Yu. A. Blagovidova.

Inst :

Title : Pharmacy and Pharmaceutical Instruction in People's Republic
of China.

Orig Pub: Aptekhn. delo, 1957, 6, No 5, 81-85.

Abstract: No abstract.

Card : 1/1

-20-

USCOMM-DC-54547

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0

BLAGOV IDOVA, Yu.A., dots.; LO YA-CHIN [Lo Ya-ching], vrach.

Use of ginseng in Chinese popular medicine. Apt.delo 7 no.2:80-82
Mr-Ap '58. (MIRA 11:4)
(CHINA--GINSENG)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0"

BLAGOVIDOVA, Yu.A., SHILOV, Yu.M.

Enlarged plenary session of the administration of the All-Union
Pharmaceutical Society. Apt.delo 7 no.4:73-75 Jl-Ag '58 (MIRA 11:8)
(PHARMACY--SOCIETIES)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0

BLAGOVIDOVA, Yu.A.

Manufacture of commercial drugs in the Chinese People's Republic.
Med.prom. 12 no.2:62-63 F '58. (MIRA 11:3)
(CHINA--DRUG INDUSTRY)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0"

BLAGOVIDOVA, Yu.A. (Moskva)

Problems of pharmacopoeia. Apt. delo 9 no. 2:72-74 Mr-Ap '60.
(NIRA 13:6)

(PHARMACOPORIA)

MURAV'YEV, I.A., prof.; BLAGOVIDOVA, Yu.A., dotsent

Notes on the organization of pharmacy in Czechoslovakia.
Apt. delo 9 no. 4:81-83 Jl-Ag '60. (MIRA 13:8)
(CZECHOSLOVAKIA—PHARMACY)

MURAV'YEV, Ivan Alekseyevich; BLAGOVIDOVA, Yu.A., red.; LYUKSHENKOV, A.G.,
red.; LYUDKOVSKAYA, N.I., tekhn. red.

[Textbook of the technology of drugs and galenical preparations]
Uchebnik tekhnologii lekarstv i galenovykh preparatov. Moskva,
Medgiz, 1961. 782 p.
(MIRA 14:12)
(DRUGS—HANDBOOKS, MANUALS, ETC.)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0

BLAGOVIDOVA, Yu.A.; TENTSOVA, A.I.

Pharmaceutical suspensions. Apt. delo 10 no.6:64-72 N-D '61.
(MIRA 15:2)
(CHEMISTRY, MEDICAL AND PHARMACEUTICAL)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0"

BLAGOVIDOVA, Yu.A., dots., otv. red.; MEL'NICHENKO, A.K., zam.
otv. red.; GAMMERMAN, A.F., prof., red.; KUTUMOVA, Ye.N.,
red.; SEDOVA, K.D., kand. farm. nauk, red.; SENOV, P.L.,
prof., red.; SIDORKOV, A.M., red.; STETSIUK, A.M., red.;
SHILOV, Yu.M., kand. farm. nauk, red.; KHALETSKIY, A.M.,
prof., red.

[Materials of the Second All-Union Conference of Pharmacists] Materialy Vtoroi Vsesoiuznoi konferentsii farma-tsevtov. Moskva, Medgiz, 1961. 394 p. (MIRA 17:7)

1. Vsesoyuznaya konferentsiya farmatsevtov, 2d, Leningrad, 1959.
2. ~~Materialy tekhnologicheskogo instituta po nauchno-issledovatel'stviyu i tekhnologii farmacevticheskogo pridazhivaniya~~ T. Moskovskogo meditsinskogo in-stituta im. I.M.Sechenova (for Blagovidova). 3. Direktor Tsentral'nogo aptechnogo nauchno-issledovatel'skogo insti-tutu (for Kutumova). 4. Zaveduyushchiy kafedroy farmatsevti-cheskogo instituta I. Moskovskogo meditsinskogo instituta imeni I.M.Sechenova (for Senov). 5. Zamestitel' direktora po na-uchnoy chasti Tsentral'nogo aptechnogo nauchno-issledovatel'-skogo instituta (for Shilov).

BLAGOVIDOVA, Yuliya Aleksandrovna; PROKOF'YEV, V.P., red.; ZAGOREL'SKIY,
Ya.I., tekhn. red.

[Incompatible and irrational prescriptions; a textbook on the technology of medicinal forms for correspondence students] Ne-sovmestimye i neratsional'nye propisi; uchebnoe posobie po tekhnologii lekarstvennykh form dlia studentov-zaochnikov. Moscow, 1962. 44 p. (MIRA 15:9)

1. Moscow. Pervyy meditsinskiy institut. Kafedra tekhnologii lekarstvennykh form. 2. Zaveduyushchiy kafedroy tekhnologii lekarstvennykh form Pervogo Moskovskogo meditsinskogo instituta imeni I.M.Sechenova (for Blagovidova).

(INCOMPATIBLES (PHARMACY))

PROZOROVSKIY, Aleksandr Sergeyevich, dots.; BLAGOVIDOVA, Yulya Aleksandrovna, dots.; PROKOF'YEV, V.P., red.; ZAGOREL'SKIY, Ya.I., tekhn. red.

[Ointments; a textbook for correspondence students on the technology of preparing medicinal forms] Mazi; uchebnoe posobie po tekhnologii lekarstvennykh form dlia studentov-zaochnikov. 2. izd. Moskva, 1962. 53 p. (MIRA 15:9)

1. Moscow. Pervyy meditsinskiy institut. Zaochnoye otdeleniye farmatsevticheskogo fakul'teta. 2. Zaveduyushchiy kafedroy tekhnologii galenovykh preparatov Pervogo Moskovskogo meditsinskogo instituta (for Prozorovskiy). 3. Zaveduyushchiy kafedroy tekhnologii lekarstvennykh form Pervogo Moskovskogo meditsinskogo instituta (for Blagovidova).

(OINTMENTS)

BLAGOVIDOVA, Yu.A.

Scientific work in the All-Union Scientific Pharmaceutical Society.
Apt. delo 11 no.1:11-15 Ja-F '62. (MIRA 15:4)
(PHARMACEUTICAL SOCIETIES)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0

ALIYEV, R.K.; BLAGOVIDOVA, Yu.A.

Pharmacy in the Polish People's Republic. Apt. delo 11 no.1:71-75
Ja-F '62. (MIRA 15:4)
(PHARMACY—CONGRESSES)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0"

BLAGOVIDOVA, Yu.A.

Some results of the progress of drug compounding technology and
further prospects. Apt. delo 11 no. 62-9 N-D'62 (MIRA 17:7)

1. Farmatsevticheskiy fakul'tet I Moskovskogo ordena Lenina me-
ditsinskogo instituta imeni Sechenova.

BLAGOVIDOVA, Yu.A.

Stability of suspensions of sulfanilamide preparations;
preliminary report. Apt. delo 12 no. 23-28 Mr-Ap '63.

(MIRA 17:7)

I. I Moskovskiy ordena Lenina medtsinskiy institut imeni
I.M. Sechenova.

LYUKSHENKOV, A.G. [deceased]; BLAGOVIDOVA, Yu.A.; LOGINTSEVA, G.A.

Some data on determining the size of particles in suspension
ointments. Apt. delo 12 no.4:30-36 Jl-Ag '63.

(MIRA 17:2)

1. TSentral'nyy aptechnyy nauchno-issledovatel'skiy institut i 1-y Moskovskiy ordena Lenina meditsinskiy institut imeni I.M. Sechenova.

STEPANENKO, B.N.; BLAGOVIDOVA, Yu.A.; BELOVA, O.I.

Current status and prospects of the use of high molecular-weight compounds in pharmacy. Apt. delo 12 no.2;3-15 Mr-Ap '63.
(MIRA 17:7)

1. I Moskovskiy ordena Lenina meditsinskiy institut imeni I.M. Sechenova i TSentral'nyy aptechnyy nauchno-issledovatel'skiy institut.

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0

BLAGOVISNYY, V.I.; GILYAZETDINOV, L.P.; DOLBILIN, Ye.N.; KORABEL'NIKOVA G.P.;
YAGOVKIN, A.G.

Using liquid stock in the production of furnace black. Gaz. prom.
7 no.ll:43-46 N '62. (MIRA 17:9)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0"

BLAGOVOLIN , N.S.

10-58-2-26/30

The 4th Conference of Young Scientists of the Institute of Geography of the USSR Academy of Sciences 1957

(Izv.Ak Nauk SSSR, Ser Geog, 1958, no.2, p. 151-3, Gorbunova, M. N.)
formation of the relief of the Khibiny tundras; L.F. Kunitsyn
on characteristic features of perennial frost in the north-
west Siberian lowlands; N.S. Blagovolin on the morphology
of karst occurrences in the Aldan plateau; A.V. Yermakov on
erosional waters in the Central Caucasus; A.A. Mints and B.S.
Khorev on questions concerning economic-geographical typology
of socialist cities exemplified by central industrial regions
of the European part of the USSR; V.S. Mikheyeva on the typology
of soil organization in the kolkhozes of the Trans-Oka region,
Moscow Oblast'; B.S. Khorev on the industrial utilization of
forests in connection with the construction of the Bratsk hydro-
power plant and the creation of an inundation zone; M.F. Khis-
matov on the utilization of mineral resources in northern
Bashkirija; K.N. Chernozhukov on the development of agricultural
production and the utilization of tropic resources in South
China; Ya.M. Berger on the industrialization of the Sin'tsyan-
Uygur Autonomous Oblast' (China); Yu.L. Pivovarov on the
formation of the Ostrava industrial center (Czechoslovakia);
A.A. Zasukhin on basic structural and geographical shifts in

Card 2/3

BLAGOVOLIN, N.S.

"Stages in the relief development and Pliocene and Pleistocene
climatic changes in the Ahaggar Mountains of the Central Sahara"
by J. Budel. Reviewed by N.S. Blagovolin. Vop. geog. no.46:233-235
'59. (MIRA 12:J2)

(Ahaggar Mountains--Geology, Structural)
(Ahaggar Mountains--Climate)
(Budel, J.)

BLAGOVOLIN, N. S.

Cand Geog Sci - (diss) "Geomorphology and history of the development of the Kerchensko-Tamanskaya Oblast." Moscow, 1961. 19 pp; (Ministry of Higher Education USSR, Moscow Order of Lenin and Order of Labor Red Banner State Univ imeni M. V. Lomonosov, Geography Faculty); 150 copies; price not given; (KL, 10-61 sup, 208)

PIOTKOVSKIY, Vladimir Vladimirovich; PODOBEDOV, N.S., prof., retsensent;
BOGOMOLOV, L.A., dotsent, retsensent; GELLER, S.Yu., doktor geograf.
nauk, retsensent; BLAGOVOLIN, N.S., nauchnyy sotrudnik, retsensent;
BOGDANOVA, N.M., nauchnyy sotrudnik, retsensent; DOSKACH, A.G.,
nauchnyy sotrudnik, retsensent; ZHIVAGO, A.V., nauchnyy sotrudnik,
retsensent; RANTSMAN, Ye. Ya., nauchnyy sotrudnik, retsensent; NIKOLAEV,
N.I., prof., retsensent; DORROWOL'SKIY, V.V., dotsent, retsensent;
VOSKRESENNSKIY, S.S., red.; SHAMAROVA, T.A., red.izd-va; PREYS, E.N.,
tekhn.red.

[Geomorphology and fundamentals of geology] Geomorfologija i osnovami
geologii. Riga, Izd-vo geodez.lit-ry, 1961. 283 p.

(MIRA 14:12)

1. Nachal'nik ot dela geomorfologii Instituta geografii AN SSSR (for Geller).
2. Otdel geomorfologii Instituta geografii AN SSSR (for Blagovolin, Bogda-
nova, Doskach, Zhivago, Rantsman).
(Geomorphology) (Geology)

BLAGOVOLIN, N.S.

Conditions governing the formation of bryozoan reefs in the Kerch Peninsula. Fil. MOIP, Otd.geol. 37 no.3:139-140 My-Je '62.
(MIRA 15:10)

(Kerch Peninsula—Polyzoa)

BLAGOVOLIN, Nikolay Stepanovich; DUMITRASHKO, N.V., doktor geogr.
nauk, otv. red.; LADYCHUK, L.P., red. izd-va; KYLINA, Yu.V.,
tekhn. red.

[Geomorphology of the Kerch-Taman' area] Geomorfologija Ker-
chensko-Tamanskoi oblasti. Moskva, Izd-vo Akad. nauk SSSR,
1962. 189 p. (MIRA 15:8)

(Kerch Peninsula--Geomorphology)
(Taman' Peninsula--Geomorphology)

BLAGOVOLIN, N.S.; TIMOFEEV, D.A.

Conference on the geomorphology of Siberia. Izv. AN SSSR. Ser. geog.
no.4:120-122 Jl-Ag '62. (MIRA 16:5)
(Siberia--Geomorphology--Congresses)

IZOTOV, A.A.; BULANZHE, Yu.D.; MAGNITSKIY, V.A.; MESHCHERYAKOV, Yu.A.;
BLAGOVOLIN, N.S.

Establishment of the Crimean geophysical polygon for the study
of crustal subsurface geology and recent tectonic movements.
Geofiz.biul. no.12:82-84 '62. (MIRA 16:5)
(Crimea—Geophysical research)

BLAGOVOLIN, N.S.; MURATOV, V.M.; TIMOFEYEV, D.A.

Several problems of slope formation under the conditions of various
morphostructures. Izv. AN SSSR. Ser. geog. no.3:16-25 My-Je '63.
(MIRA 16:8)

1. Institut geografii AN SSSR.
(Slopes (Physical geography))

BLAGOVOLIN, N.S.; TIMOFEEV, D.A.

Large scale geomorphological mapping abroad. Izv. AN SSSR Ser.
geog. no.6:116-118 N-D '64 (MIRA 18:1)

BLAGOVOLIN, N.S.

Age of the morphostructur of the mountains of the Crimea. Izv.
AN SSSR. Ser. geog. no.2:83-89 Mr-Ap '65.

(MIRA 18:4)

1. Institut geografii AN SSSR.

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0

SIMONOV, Yu.G.; BLAGOVOLIN, N.; GELLER, S.; KAIETSKAYA, M.; KAMANIN, L.;
LILLYENBERG, D.; MURZAYEV, E.

Ivan Semenovich Shchukin's (1885-) anniversary. Izv. AN SSSR.
Ser. geog. no.3:136-137 My-Je '65.

(NIRA 18:6)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0"

BLAGOVOLIN, N.S.

Conference on the economy of the Black Sea Depression. Izv. AN SSSR.
Ser. geog. no.4:147-149 Jl. Ag '65. (MIRA 18:8)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0

BLAGOVOLIN, N.S.

Characteristics of the development of karst in southwestern
Yakutia. Trudy MDIP 15:79-83 '65. (MIRA 18:9)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205420017-0"

BLAGOVOLIN, N.S., kand. geogr. nauk

Scientists watch earth's pulsations. Zem. i vsel. l
no.5:36-45 S-0 '65.

(MIRA 18:11)

BLAGOVOLIN, N.S.; SETUNSKAYA, L. Ye.

Second International Symposium on Recent Movements of the
Earth's Crust. Izv. AN SSSR. Ser. geog. no. 1:122-124
Ja-F '66 (MIRA 19:2)

1 23499-66 EWT(1) GW/GM

ACC NR: AT6011136

SOURCE CODE: UR/3197/65/000/002/0025/0031

AUTHOR: Blagovolin, N. S.

24
22

ORG: Institute of Geography, AN SSSR (Institut geografii AN SSSR)

B+1

TITLE: Study of contemporary ~~tectonic~~ movements at the Crimean geophysical test area

SOURCE: AN EstSSR. Institut fiziki i astronomii. Sovremennyye dvizheniya zemnoy kory. Recent crustal movements, no. 2, 1965, 25-31

TOPIC TAGS: geophysical conference, geodetic conference, geophysical test area, leveling, triangulation

ABSTRACT: A description is given of the Crimean geophysical polygon (test area) laid out in 1961, including its location, boundaries, and topography. Geophysical field and research work carried out in the area has included the following: 1961—the Moscow Institute of Geodetic, Aerial Mapping, and Cartographic Engineers (MIIGAiK) and the Institute of Geography, Academy of Sciences SSSR, ran a line of repeated leveling; installing bench marks; 1962—eleven main bench marks, twenty-four wall marks and eighteen triangulation stations; 1962–1963, eighteen

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L 23499-66

ACC NR: / AT6011136

2

triangulations stations with errors in measuring angles not exceeding 0.5", pulsed light range-finder measurements of network sides between triangulation stations (12 sides) measured with mean square errors no larger than 1:400,000 of the side lengths, four first-order astronomic stations, and 60-km first-order reciprocal leveling with mean square errors of no more than ± 0.5 mm per km of leveling line. The first data on vertical and horizontal tectonic movements were obtained from these measurements. In 1964, the Institute of the Physics of the Earth and the Institute of Geography, Academy of Sciences SSSR, laid out an intersecting reciprocal line of levels from the tidal gauge at Yalta to Simferopol. All leveling lines are to be rerun every three years; they will serve as control for tiltmeter work being carried out by the Poltava Gravimetric Observatory at the Yalta and Simferopol stations. Supplemental geologic and geomorphological research will include the compilation of a structural-geologic map of the central Crimean mountains, floodplain structure and deposition studies, river basin and run-off studies, and soil studies and mapping. Thirty profiles have been constructed for studying slope erosion and configuration, vegetation lithology, etc. [ER]

SUB CODE: 08/ SUBM DATE: none

Card 2/2 Q6

32978
S/641/61/000/000/005/033
B112/B138

26.2241

AUTHOR: Blagovolin, P. P.

TITLE: Thermalization of neutrons in a thermal heterogeneous reactor

SOURCE: Krupchitskiy, P. A., ed. Neytronnaya fizika; sbornik statey. Moscow, 1961, 56-65

TEXT: The thermal utilization coefficient ψ is represented in the form $\psi = (1 + q)^{-1}$, $q = q^{(o)} \eta_1 \eta_2$, where $q^{(o)}$ is the one-group theoretical approximation of q , which is calculated under the assumption of constant neutron temperature in the cell. The thermalization corrections η_1 and η_2 are given by the formulas $\eta_1 = \sqrt{\bar{T}_{NT}/T}$ and $\eta_2 = (\bar{f}_Z/\bar{f}_T)(\bar{n}_T/\bar{n}_Z)$, where \bar{T}_{NT} is the temperature of the neutrons in the moderator, T is the moderator temperature, \bar{n}_T and \bar{n}_Z are the one-group theoretical approximations of the mean neutron fluxes in the fuel and the moderator, and where f is defined by the relation $f = f(1 - t)^2 \exp(Et/T)$. t is the abbreviation for Card 1/2

Thermalization of neutrons ...

32978
S/641/61/000/000/005/033
B112/B138

$(T_H - T)T_H$ (T_H the effective neutron temperature), E is the neutron energy, and φ is determined by the diffusion equation

$$D\Delta\varphi - \sigma\varphi + (2T - E) \frac{2}{m} \sigma_s \frac{\partial\varphi}{\partial E} + \frac{2}{m} \sigma_s TE \frac{\partial^2\varphi}{\partial E^2} = 0.$$

$\eta_1\eta_2 \approx 1.1$ is the result of a numerical computation. This is in good agreement with results of other authors. V. V. Smelev (the given volume, p. 161) and A. D. Galanin (the given volume, p. 125) are referred, too. A. D. Galanin, B. L. Ioffe, B. T. Il'ichev, and R. G. Avalov are thanked for assistance. There are 1 table and 5 Soviet references.

Card 2/2

BLAGOVOLIN, P. P.

"Physical Calculations of Heavy Water Lattice"

European American Committee on Reactor Physics, Panel on Heavy Water Lattices
(IAEA)
Vienna, 18-22 February '63

BLAGOVOLIN, P.P.

Conference of experts on heavy-water lattices. Atom. energ. 14
no.6:594-595 Je '63. (MIRA 16:7)
(Deuterium oxide) (Nuclear reactors)

BLAGOVOLIN, S. M.

42330 BLAGOVOLIN, S. M. - Mekhanizatsiya poskostruynoy ochistki detaley. (Konstruktsiya
B. A. Dubovikova krasnoglin, Mekhan. zavod). V sb: Opyt novatorov Nas' incstroyeniya.
Kuybyshev, 1948, s. 131-35.

SO: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948.

BLAGOY, D.A., Professor

"Ivan Andreyevich Krylov-On the Occasion of the Hundreth Anniversary of his
Death"
Vest. AK. Nauk SSSR, no. 11-12, 1944

PLAGOY, V. S.

PLAGOY, V. S. -- "A Method of Calculating the Current and Static Traction Characteristics of Alternating-Current Electromagnets as Used in the Power Supply of High-Voltage Circuit-Breakers." Min Higher Education Ukrainian SSR. Kiev Order of Lenin Polytechnic Inst. Chair of "Central Electric Power Stations." Kiev, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SOURCE Knizhnaya Letopis', No 6 1956

BUDNITSKIY, Abram Borisovich; KALNIBOLOTSKIY, Maksim Leont'yevich;
NEDZEL'SKIY, Stanislav Il'ich; Prinimali uchastiye: ISHCHENKO,
Yu.D.; BLAQOY, V.S.; NEMCHUNOVA, O., red.; MATUSEVICH, S.,
tekhn. red.

[Electric equipment of thermal electric power plants] Elektro-
oborudovanie teplovyykh elektricheskikh stantsii. Kiev, Gos.
izd-vo tekhn. lit-ry USSR, 1961. 363 p. (MIRA 14:9)
(Electric power plants—Equipment and supplies)

SOV/139-58-6-23/29

AUTHORS: Blagoy, Yu.P. and Rudenko, N.S.

TITLE: Density of the Liquefied Gas Solutions N₂-O₂, A-O₂
(Plotnost' rastvorov ozhizhennykh gazov
N₂-O₂, Ar-O₂)

PERIODICAL: Izvestiya Vysashikh Uchabnykh Zavedeniy, Fizika,
1958, Nr 6, pp 145-151 (USSR)

ABSTRACT: Densities of solutions of liquid oxygen, nitrogen, argon, etc are of great interest, since liquefied gases and their solutions are structurally the simplest liquids. The apparatus used to measure liquefied gas densities is shown in Fig 1. A quartz pycnometer (1) with a long narrow tube (2) was placed in a Dewar vessel with a window. The pycnometer was connected by a narrow tube to a thermostatted bulb (3), a mercury manometer (4) and an auxiliary bulb (5). The density was measured by filling the apparatus with one of the components at a pressure P₁ and adding the second component at a pressure P₂. The mixture composition was obtained from the values of P₁ and P₂. To mix the two gases very thoroughly the authors condensed and re-evaporated them

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SOV/139-58-6-23/29

Density of the Liquefied Gas Solutions N₂-O₂, A-O₂

many times in the pycnometer. The mixture was condensed until a certain level was reached in the pycnometer tube. The condensed mass of the solution was determined from the difference of pressures before and after condensation from the volume occupied by the gas and its temperature. The liquid level in the pycnometer and the mercury level in the manometer were measured by means of a cathetometer to within 0.1 mm. Oxygen was obtained by decomposition of potassium permanganate; pure nitrogen was produced by removal of oxygen over hot copper filings; argon had 0.2% of oxygen. The solution compositions were determined to within 0.05%. The pycnometer was checked by measuring the density of pure oxygen, nitrogen and argon. The largest difference between the results obtained in the author's pycnometer and those reported earlier (Ref 1, 2) did not exceed 0.2%. Densities of nitrogen - oxygen solutions with 20.4, 35, 53.85, 68.38, 81.35 and 89.30% of oxygen, were measured between 65 and 80°K; the results are shown in Table 1. Similar measurements were carried out for argon-oxygen solutions containing 87.4, 78.5, 63.2

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SOV/139-58-6-23/29

Density of the Liquefied Gas Solutions N₂-O₂, A-O₂

49.1, 32.3, 19.4 and 9.85% of argon; the results are given in Table 2. In both solutions the volumes are not additive, i.e. the volume of the solution is not the sum of the volumes of the components. The experimental values of the A-O₂ densities are lower than those which can be expected from strict additivity and consequently the excess volume of mixing is positive (Fig 2). The measured densities of the N₂-O₂ solutions are higher than the values calculated on the basis of additivity and consequently the excess mixing volume is negative (Fig 2). According to Meares (Ref 5,6), departure from additivity is due to one or more of the following three reasons: (a) difference in the volumes of the molecules of the components, which makes it possible to pack them more closely in a solution; (b) due to evolution (or absorption) of the energy of mixing; (c) differences in the specific binding energies of the pure components and their compressibilities. Calculations showed that in the case of nitrogen-oxygen and argon-oxygen solutions

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SOV/139-58-6-23/29

Density of the Liquefied Gas Solutions N₂-O₂, A-O₂

the departures from additivity are due to the last two reasons. There are 2 figures, 5 tables and 13 references of which 5 are Soviet, 6 English and 2 Dutch.

ASSOCIATION: Khar'kovskiy Gosuniversitet imeni A.M.Gor'kogo
(Khar'kov State University imeni A.M.Gor'kiy)

SUBMITTED: 11th April 1958

Card 4/4

10.4000

65704

SOV/139-59-2-3/30

AUTHORS: Blagoy, Yu.P. and Rudenko, N.S.

TITLE: Surface Tension of Solutions of Liquefied Gases N₂-O₂,
A-O₂

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1959,
Nr 2, pp 22-28 (USSR)

ABSTRACT: Surface tension of a solution depends, inter alia, on:
the difference between surface tensions of the pure
components, energy of mixing of the solution, orientation
of molecules in the surface layer and forces between these
molecules and on association or dissociation of the
constituent molecule. B.Ya.Pines (Ref 1) calculated
adsorption and surface tension of solutions of simple
liquids and related these quantities to the energy of
mixing of solutions. R.V.Bakradze and B.Ya.Pines (Ref 2)
showed that the formulae obtained describe correctly
behaviour of surface tension of liquid alloys. The present
paper reports initial results of a verification of the
applicability of the Pines theory to surface tension of
N₂-O and A-O₂ solutions. These studies covered the
temperature range from the boiling point of the pure

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65704
SOV/139-59-2-3/30

Surface Tension of Solutions of Liquefied Gases N₂-O₂, A-O₂

components to the temperature of their solidification. Two methods were used to determine surface tension: capillary rise method (used for N₂-O₂ solutions, cf Fig 1) and maximum pressure of gas in a bubble method (used for A-O₂ solutions, cf Fig 2). Surface tension and its temperature dependence were determined on N₂-O₂ solutions with 10, 26, 54.5, 70, 80 and 90% of oxygen, and A-O₂ solutions with 19.5, 31, 47.5, 67, 81 and 90% of oxygen. The results are shown in Tables 1 and 2 respectively. Surface tensions were found to rise linearly with temperature, except in dilute solutions of argon in oxygen (in these solutions adsorption caused departures from linearity at low temperatures). In N₂-O₂ and A-O₂ solutions surface tensions were smaller than the sums of surface tensions of the pure components. In N₂-O₂ solutions, this non-additivity was due to non-additivity of the interaction energy between molecules (the energy of mixing was not equal to zero) and due to adsorption. In A-O₂ solutions, the non-additivity was due to only the non-additivity of the energy of interaction of molecules (the energy of mixing was positive). The results obtained

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65704

SOV/139-59-2-3/30

Surface Tension of Solutions of Liquefied Gases N₂-O₂, A-O₂
confirmed the Pines theory. There are 4 figures,
3 tables and 8 references, 5 of which are Soviet,
1 German, 1 Dutch and 1 English.

ASSOCIATION: Khar'kovskiy gosuniversitet imeni A.M.Gor'kogo
(Khar'kov State University imeni A.M.Gor'kiy)

SUBMITTED: June 17, 1958

Card 3/3

BLAGOY, Yu. P., Cand Phys-Math Sci -- (diss) "Density and surface tension of binary solutions of liquified gases." Khar'kov, 1960. 18 pp; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Khar'kov Order of Labor Red Banner State Univ im A. M. Gor'kiy); 150 copies; free; bibliography at end of text (17 entries); (KL, 23-60, 121)

86812

S/185/60/005/001/012/018
A151/A029*11.3000*AUTHOR: Blagoy, Yu.P.TITLE: Surface Tension of Solutions of the Liquified Gases N₂ - Ar, N₂ - CH₄, Ar - CH₄

PERIODICAL: Ukrayins'kyy Fizychnyy Zhurnal, 1960, Vol. 5, No. 1, pp. 109 - 114

TEXT: The surface tensions of the solutions were measured by means of a capillary method. A differential method, in which the height of the liquid rises in two capillaries of various diameter was determined, had been applied in order to exclude the effect of the curvature of the surface in the measuring vessel. In this case, the surface tension σ is determined according to the formula

$$\sigma = \frac{(h_1 - h_2) r_1 r_2 \rho g}{2 (r_2 - r_1)}, \quad (1)$$

(the marginal angle for liquified gases is zero). Since in this work the surface tension of methane and its solutions had been determined, it proved necessary to carry out the measurements at temperatures higher than the boiling temperature of oxygen in a Dyuar vessel at normal pressure. The concentration of the solutions was determined according to the components' volume. In this case, the mis-

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86812
S/185/60/005/001/012/018
A151/A029

Surface Tension of Solutions of the Liquified Gases N₂ - Ar, N₂ - CH₄, Ar - CH₄

take did not exceed 1%. The viscosity of the solutions Ar - CH₄ and N₂ - CH₄ was determined in a separate investigation (Ref. 4). The viscosity of the system Ar - N₂ was taken from Reference 5. The mistake in determining the surface tension was not greater than 1%. Measurements of the surface tension of pure methane and the solutions CH₄ - Ar, CH₄ - N₂ and Ar - N₂ were carried out for the whole concentration range from freezing to boiling temperature at normal pressure. It was ascertained that for pure methane, as well as for all solutions the surface tension depends linearly on the temperature. A considerable deviation from the additive values was observed on the curves of the concentration dependence of the surface tension for all three solutions. As a rule, the deviation value of $\Delta\sigma$ is asymmetrical in relation to a medium concentration. Larger deviations are observed for solutions with smaller concentrations of surface-active components. The deviation of the surface tension from the additive values can be conditioned by the deviation of the solution from the theoretical condition and by the adsorption of the surface-active component. The theory developed by B.Ya. Pines (Ref. 2) takes these conditions into consideration and gives surface tension values for the solutions of liquified gases with small deviations from an ideal case. These values show a favorable coincidence with the experi-

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86812
S/185/60/005/001/012/018
A154/A029

Surface Tension of Solutions of the Liquified Gases N₂ - Ar, N₂ - CH₄, Ar - CH₄

mental data. For small concentrations of nitrogen, the theoretical values are by 1.5 times lower than the experimental ones. Less favorable results are obtained from Pines' formulae for the solutions CH₄ - Ar and CH₄ - N₂. These systems are characterized by considerable deviations (Ref. 4). The approximation, in which the theoretical calculations were made, is not sufficient for describing these solutions. The author makes also a comparison of his data with the statistical theory of the surface tension of binary solutions, developed in Reference 3 which is based on the free volume model and on the theorem of corresponding states. The formulae of the statistical theory of the surface tension developed by Prigogine (Ref. 3) yield values of δ which satisfactorily coincide with the results obtained in this paper. There are 4 tables, 3 figures and 7 references: 4 Soviet, 2 English and 1 Italian.

ASSOCIATION: Kharkiv's'kyj derzhavnyj universytet (Kharkov State University)

SUBMITTED: June 24, 1959

Card 3/3

BLAGOY, YU.P.

6

STRUCTURE AND PHYSICAL PROPERTIES OF MATTER IN A LIQUID STATE
reports read at the 4th Conference convened in KIYEV from 1 to 5 June
1959, published by the publishing House of KIYEV University, KIYEV,
USSR, 1962

G.S. DENISOV and V.N. CHUANOVSKIY, Spectral Investi-	
gation into the Interaction Between	
the Carbonyl Group of Ketones and	
Proton-donor Molecules	144
N.B. RABINOVICH, Z.V. VOLOKHOVVA and V.A. GORBUSHENKOV,	
The Effect of the Substitution of Hydrogen	
by Deuterium on the Critical Temperature	
and Polarization of Molecules	144
Y.U.P. BLAGOY and N.S. RUDENKO, The Surface Tension and	
Density of Liquefied Gas Solutions	144
Articles of special interest are those beginning on pp 57, 85, 115	
and 144 (?) respectively.	

BLAGOY, Yu.P. [Blahoi, IU.P.]; OROBINSKIY, N.A. [Orobins'kyi, M.P.]

Liquid - vapor phase equilibrium in the propylene - argon system.
Ukr. fiz. zhur. 8 no.12:1378-1385 D '63. (MIRA 17:4)

1. Fiziko-tehnicheskiy institut nizkikh temperatur AN UkrSSR,
Khar'kov.

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Liquid - vapor phase equilibrium of the system propylene -
nitrogen. Zhur. fiz. khim. 39 no.8:2022-2024 Ag '65.
(MIRA 18:9)
1. Fiziko-tehnicheskiy institut nizkikh temperatur AN UkrSSR.

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TITLE: Surface tension of hydrogen near the critical point

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TOPIC TAGS: surface tension, hydrogen, critical point, liquid property

ABSTRACT: The surface tension of normal hydrogen was measured at temperatures from 20K to the critical point, both for the purpose of practical applications and for the purpose of obtaining new data to confirm the modern theory of liquids. The measurements were made by determining the difference between the liquid levels in two capillaries of different diameters (Fig. 1), placed in a liquid-hydrogen Dewar. The temperature was varied by pumping on helium and was automatically controlled by means of an electric oven-heating circuit. The surface tension was calculated from these measurements accurate to 0.002 dynes/cm. The results obtained near the boiling point agreed with the data of earlier papers within the limit of experimental error (~1%). The results are also used to derive an analytic formula for the dependence of the

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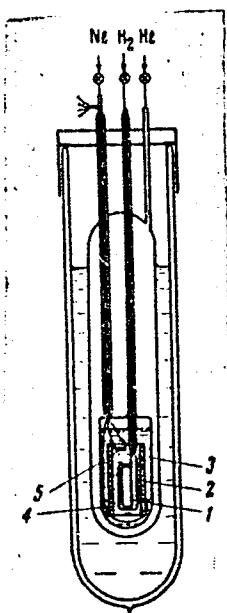


Fig. 1. Instrument for measuring surface tension of hydrogen

1 - Capillaries; 2 - copper cylinder;
3 - thermostating liquid; 4 - oven scheme;
5 - carbons resistance thermometer.

surface tension on the temperature. Authors are grateful to G. P. Kropachev for help in the measurements. Orig. art. has: 4 figures, 2 formulas, and 1 table. 44, 55 [02]

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